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***Polycentropus pirisinui* MALICKY, 1981 - Updated distribution in Italy and description of the female**

Fernanda CIANFICCONI, Piero SALERNO

**Abstract.** The distribution of *Polycentropus pirisinui*, endemic to Italy, is considered and the female is illustrated and described.

**Introduction**

The male of *Polycentropus pirisinui* was described by MALICKY (1981) based on specimens found in Toscana (east of Bibbiena, AR, 450 m a.s.l.) in 1980. Two males were captured by M.Valle using light traps in Emilia Romagna (Ponte Samona, Guiglia, MO) in 1992 (CIANFICCONI *et al.*, 1993). Specimens of *Polycentropus* sp. from the River Tiber in the Moretti collection (MORETTI *et al.*, 1997) were re-examined and attributed to this species. Later Salerno collected several specimens, including females, in central Italy. M.Valle lent us some specimens from northern and southern Italy preserved in the Museo civico di Scienze Naturali "E. Caffi" di Bergamo. MALICKY noted (*in litt.*) the presence of the species in collections made in 2001-2002 in northern Italy. Examination of large numbers of specimens resulted in an updating of the distribution in Italy and in the description of the unknown female.

**Material examined**

**Piemonte:** Rio Meri, inlet Lago di Ortiglieto, AL, 300 m, 23.VI.2001: 11 ♂, 42 ♀; 13.VIII.2002: 2♂, leg. det. Malicky. **Liguria:** Stream Gargassa, Rossiglione, GE, 320 m, 16.VII.2001: 3 ♀, leg. Museo Caffi BG; outlet Lago di Ortiglieto, Rossiglione, GE, 300 m, 5.VII.2002: 18 ♀, leg. Bianchi, Zatelli; Ritano delle Brigne, Rossiglione, GE, 400 m, 16.VII.2001: 8 ♀, leg. Museo Caffi, BG; 5.VII.2002: 6 ♀, leg. Bianchi, Zatelli; Stream Stura, Mason, GE, 450 m, 16.VII.2001: 1 ♂, 59 ♀, leg. Museo Caffi, BG; Stream Lerrone, Casanova, SV, 150 m, 25.VI.2001: 3 ♀, leg. det. Malicky. **Marche:** Stream Certano, PS, 370 m, 29.VI.1994: 20 ♀, leg. Salerno. **Umbria:** Stream Aia, Madonna di Corvagliano, TN, 153 m, 26.VI.1998: 1 ♂, 2 ♀ (during the day); 81 ♂, 296 ♀, 1 pupa ♂, 4 pupae ♀; 17.VII.1998: 30 ♂, 306 ♀; 22.VII.1998: 8 ♂, 13 ♀, leg. Salerno, Vinciarelli; Stream Carpina, PG, 450 m, 27.VI.2000: 3 ♂, 3♀, leg. Salerno, Radicchi; River Tevere, Todi, S. Sisto, PG, 134 m, 20.IV.1967: 1 p ♂, leg. Giovagnoni, (det. Moretti). **Toscana:** River Tevere, Cercetole, AR, 500 m, 22.VII.1967: 1 ♂, leg. Viganò, (det. Moretti); Formole, AR, 450 m, 27.VII.1983: 2 ♀, leg. Selvi; Pieve S. Stefano, AR, 425 m, 26.VI.1982: 2 ♀, leg. Chiappafreddo, Cianficconi, Corallini. **Basilicata:** River Noce, Maratea, PZ, 30 m, 22.VI.1998: 7 ♂, 25 ♀, leg. Bertuetti, Pantini, Valle; River Noce, Castrocucco, Maratea, PZ, 5 m, 21.VI.1998: 1 ♀, leg. Pantini.

Apart from 1 ♂ and 2 ♀ collected during the day (26.VI.1998), all specimens were collected with light traps (U.V. lamps).



Fig. 1 – *Polycentropus pirisinui* - map of distribution in Italy up to 2002.

All the specimens from Liguria and Basilicata are in the collection of Museo di Bergamo. The specimens of Piemonte and Liguria (SV) are in the Malicky collection at Lunz am See, Austria. The specimens of the other regions are in the Moretti collection at the Dipartimento di Biologia Animale ed Ecologia dell'Università di Perugia.

This species which was known in the Regions Emilia Romagna, Toscana, Umbria (CIANFICCONI, 2002), is now recorded for the first time in Piemonte, Liguria, Marche, Basilicata. It is endemic to Italy with a Tyrrhenian distribution (Fig. 1).

**The female of *Polycentropus pirisinui***

Allotype ♀ and paratypes: Umbria, Stream Aia, Madonna di Corvagliano, TN, 153 m, 26.VI.1998, leg. Salerno, Vinciarelli, coll. Moretti.

Wings and body yellowish brown, forewing length 7-7.5 mm (Fig. 2).

Genitalia – They are distinguished by 3 reddish brown areas in VIII segment clearly visible under stereomicroscope: 2 lateral and 1 anterior central (Fig. 3).

On the basis of the description by DE PIETRO (2000) of females from four species of *Polycentropus* in Sicily, the female of *Polycentropus pirisinui* is presented here (Fig. 4).

In lateral view the anterior dorsal angle of IX segment is obtuse (a); in ventral view external parts of gonopods VIII have a domed shape (c); ventral plates are leaf-shaped (c); central portion of the processus spermathecae is circular (e).

**Remarks**

This species is found in lotic waters between epirhithral and epipotamal zones at altitudes of 5 -500 m a.s.l. The adults emerge in summer months (June, July) and are attracted, especially the females, by light traps. In the collections from stream Aia (26.06.1998) many females had a whitish colour indicating recent emergence, and a few females were ovigerous. A few pupae and many

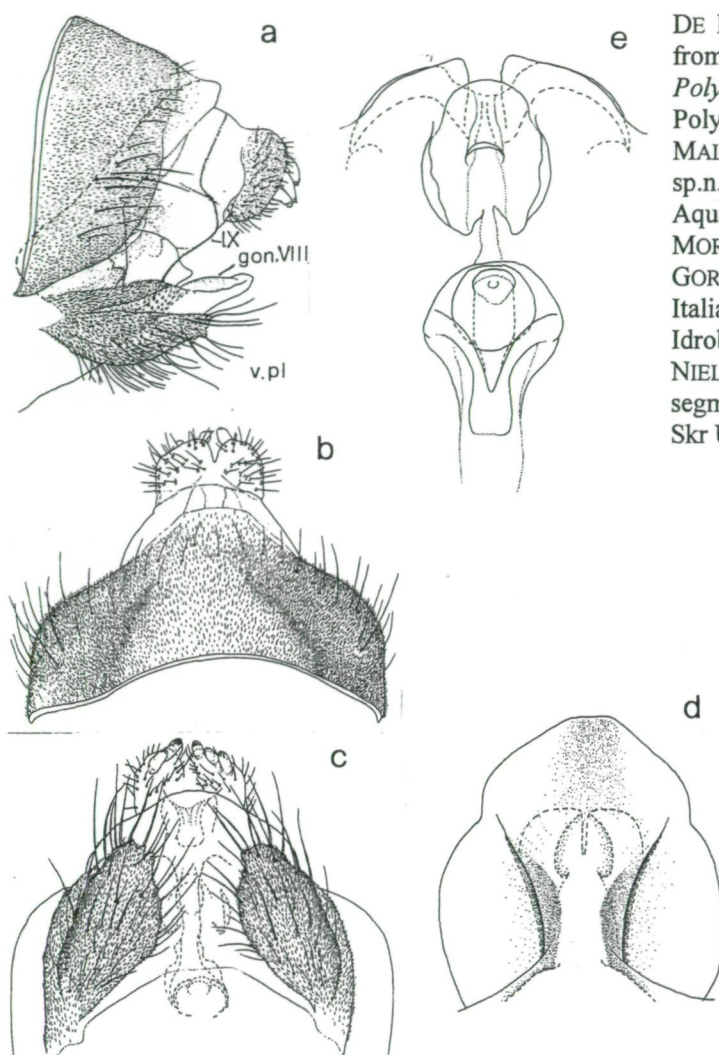


Fig. 4 – *Polycentropus pirisinui* - female genitalia (allotype, cleared in KOH). Lateral view (a); dorsal view (b); ventral view (c); ventral view of segment VIII and IX after removal of the ventral plates (d); genital chamber (e). IX = IX segment; gon. VIII = gonopod VIII; v. pl. = ventral plate.

empty pupal cases were observed on the stony substrate (Fig. 5).

In Umbria and Marche *Polycentropus pirisinui* is often found together with *P. morettii*.

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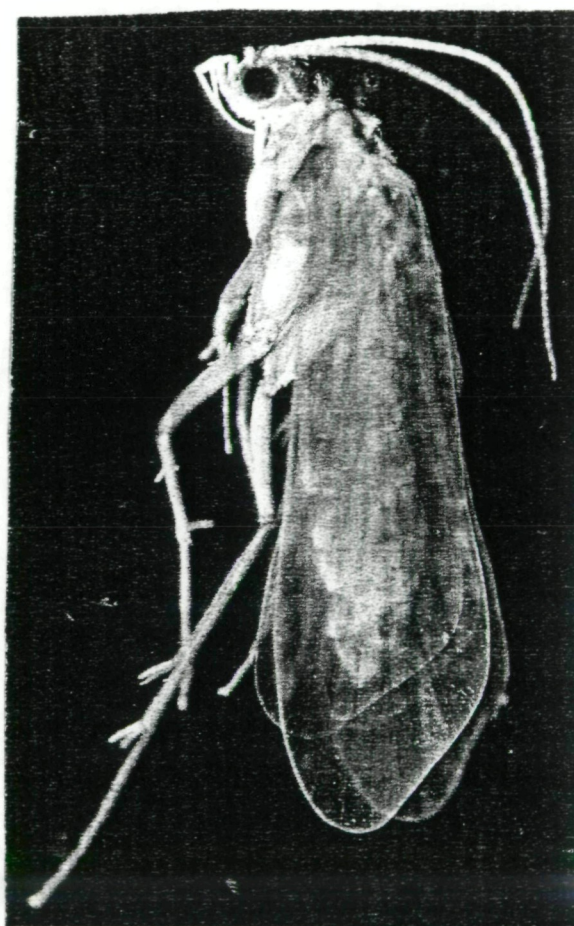


Fig. 2 – *Polycentropus pirisinui* ♀.

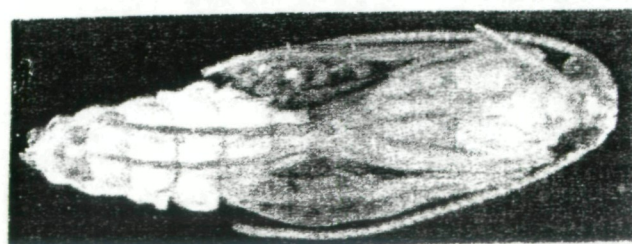


Fig. 3 – *Polycentropus pirisinui* - ♀ pupa viewed ventrally; the 3 reddish brown areas of the VIII segment are clearly visible.

**Address of the authors:** – Dipartimento di Biologia Animale ed Ecologia, Università di Perugia, Via Elce di Sotto – 06123 PERUGIA, Italy.